

LISTING OF THE CLAIMS

1. - 71. (Cancelled)

72. (Previously presented) A method of obtaining a sustained CTL response in a mammal, which method comprises:
delivering an antigen directly to a lymph node or a lymph vessel of the mammal at a level sufficient to induce a CTL response in the mammal; and
maintaining the antigen in the mammal's lymphatic system over time sufficient to sustain the CTL response.

73. (Previously presented) The method of Claim 72, wherein the antigen is provided in the form of a polypeptide.

74. (Previously presented) The method of Claim 72, wherein the antigen is provided as a component of a microorganism.

75. (Previously presented) The method of Claim 72, wherein the antigen is provided in the form of a nucleic acid encoding the antigen.

76. (Previously presented) The method of Claim 75, wherein the nucleic acid encoding the antigen comprises a plasmid, a vector, or a recombinant viral vector.

77. (Previously presented) The method of Claim 72, wherein the antigen is maintained by sustained, delivery of the antigen.

78. (Previously presented) The method of Claim 72, wherein the antigen is a diseased matched antigen.

79. (Currently amended) A method of obtaining a sustained effector CTL response in a mammal, which method comprises:

selecting an antigen suitable for a sustained CTL response in the mammal;
delivering the antigen to a lymphatic system of the mammal at a level sufficient to induce a CTL response in the mammal;
causing sustained exposure of the antigen to the mammal's lymphatic system;
obtaining a sustained effector CTL response in the mammal; and
detecting the sustained effector CTL response in the mammal.

80. (Currently amended) The method of Claim 79, wherein the detection step comprises an assay selected from the group consisting of a cytokine assay, a chromium release assay, an antiviral protection assay, virus titer, an immunofluorescence assay, a tumor growth

inhibition assay, tumor size reduction, a CTL assay, inhibition of tumor metastasis, increase in life expectancy, infectious disease recovery, inflammatory reaction assay, and observation of the health of the mammal.

81. (Previously presented) The method of Claim 79, wherein the delivery step further comprises delivering a cytokine, adjuvant, or potentiator.

82. (Previously presented) A method of obtaining a sustained CTL response in a mammal, which method comprises:

selecting an antigen that is capable of inducing CTL in a mammal;

delivering the antigen to the mammal at a level sufficient to induce a CTL response in the mammal, wherein the antigen is delivered to an area of high lymphatic drainage in the mammal; and

maintaining the antigen in the mammal's lymphatic system sufficient to sustain the CTL response for a period of time that is substantially co-extensive with the desired duration of the CTL response.

83. (Currently amended) A method of obtaining a sustained effector CTL response in a mammal, which method comprises:

delivering an antigen to a lymphatic system of the mammal at a level sufficient to induce a CTL response in the mammal;

causing sustained exposure of the antigen to the mammal's lymphatic system;

obtaining a sustained effector CTL response in the mammal; and

detecting the sustained effector CTL response in the mammal.

84. (Currently amended) The method of Claim 83, wherein the detection step comprises an assay selected from the group consisting of a cytokine assay, a chromium release assay, an antiviral protection assay, viral titer, an immunofluorescence assay, a tumor growth inhibition assay, tumor size reduction, a CTL assay, inhibition of tumor metastasis, increase in life expectancy, infectious disease recovery, inflammatory reaction assay, and observation of the health of the mammal.

85. (Previously presented) The method of Claim 83, wherein the antigen is a patient-matched antigen.

86. (Previously presented) The method of Claim 83, wherein causing sustained exposure of the antigen to the mammal's lymphatic system comprises repeated exposure of the antigen to the mammal's lymphatic system.

87. (Currently amended) A method of obtaining a sustained effector CTL response in a mammal, which method comprises:

delivering an antigen in an acellular composition directly to an area of high lymphatic drainage in the mammal at a level sufficient to induce an effector CTL response in the mammal; and

maintaining the antigen in the mammal's lymphatic system over time sufficient to sustain the effector CTL response.

88. (Previously presented) The method of Claim 87, wherein the antigen in the acellular composition is provided in the form of a nucleic acid encoding a polypeptide antigen.

89. (Previously presented) The method of Claim 87, wherein the antigen is delivered as a bolus in a single dose, and wherein the single dose is sufficient to maintain the antigen in the mammal's lymphatic system over time sufficient to sustain the CTL response.

90. (Previously presented) The method of Claim 87, wherein the sustained CTL response is detectable by a CTL assay.

91. (Previously presented) The method of Claim 87, further comprising selecting an antigen in an acellular composition for delivery that is suitable for a sustained CTL response.